

# Iowa

## Science and Engineering Profile

	STATE	U.S.	Rank		STATE	U.S.	Rank
Doctoral scientists, 1995	4,071	453,928	30	Total R&D performance, 1995 (millions)	\$1,391	\$177,210	27
Doctoral engineers, 1995	604	86,738	33	Industry R&D, 1995 (millions)	\$998	\$130,332	26
S&E doctorates awarded, 1996	457	27,230	20	Academic R&D, 1996 (millions)	\$332	\$22,481	24
of which, in life sciences	34%	25%		of which, in life sciences	61%	56%	
in engineering	26%	23%		in engineering	19%	16%	
in physical sciences	14%	14%		in physical sciences	7%	10%	
S&E postdoctorates, 1996 in doctorate-granting institutions	526	37,019	23	Higher education current-fund expenditures, 1995 (millions)	\$2,753	\$182,602	22
S&E graduate students, 1996 in doctorate-granting institutions	5,385	430,631	27	Number of SBIR awards, 1990-1997	45	31,155	42
				Patents issued to state residents, 1997	398	61,699	30
Population, 1997 (000s)	2,852	271,464	31	Gross state product, 1996 (billions)	\$76.3	\$7,677.4	29
Civilian labor force, 1997 (000s)	1,577	137,564	30	of which, agriculture	8%	2%	
				manufacturing, mining, construction	28%	23%	
Personal income per capita, 1997	\$23,102	\$25,598	33	transportation, communication, utilities	8%	8%	
				wholesale and retail trade	15%	16%	
Federal spending				finance, insurance, real estate	14%	19%	
Total expenditures, 1997 (millions)	\$13,557	\$1,405,060	32	services	15%	20%	
R&D obligations, 1996 (millions)	\$214	\$66,087	36	government	11%	12%	

Rankings and totals are based on data for the 50 states, D.C., and Puerto Rico.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1996

[Thousands of Dollars]

	Total	Federal	All FFRDCs	Industrial firms	Universities & Colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	214,114	28,948	23,447	21,020	136,945	2,375	1,379	36
<b>Department of Agriculture</b>	37,874	25,523	0	82	12,246	7	16	8
<b>Department of Commerce</b>	1,371	0	4	10	1,357	0	0	33
<b>Department of Defense</b>	22,135	840	87	14,715	6,493	0	0	39
<b>Department of Energy</b>	27,125	0	23,356	0	3,769	0	0	21
<b>Dept. of Health &amp; Human Services</b>	86,509	4	0	99	83,419	2,363	624	26
<b>Department of Interior</b>	2,648	2,581	0	0	67	0	0	42
<b>Department of Transportation</b>	10,184	0	0	5,562	3,883	0	739	17
<b>Environmental Protection Agency</b>	3,564	0	0	0	3,559	5	0	19
<b>Nat'l Aeronautics &amp; Space Admin.</b>	8,018	0	0	552	7,466	0	0	29
<b>National Science Foundation</b>	14,686	0	0	0	14,686	0	0	29
<b>State rank</b>	36	39	16	41	26	40	31	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable